

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A foundry binder system, which will cure in the presence of sulfur dioxide and an oxidizing agent, comprising:

- (a) from 45 to 80 parts by weight of an epoxy resin;
- (b) from 5 to 40 parts by weight of ester of a fatty acid;
- (c) ~~an effective amount~~ from 10 to 40 parts by weight of an oxidizing agent;
and
- (d) 0 parts of an ethylenically unsaturated monomer or polymer.

wherein (a), (b), and (c) are separate components or mixed with another of said components, and where said parts by weight are based upon 100 parts of binder.

2. (currently amended) The binder system of claim 2 1 wherein the epoxy resin is selected from the group consisting of epoxy resins derived from bisphenol A, epoxy resins derived from bisphenol F, epoxidized novolac resins, cycloaliphatic epoxy resins, and mixtures thereof.

3. (original) The binder system of claim 2 wherein the epoxy resin has an epoxide equivalent weight of about 165 to about 225 grams per equivalent.

4. (original) The foundry binder system of claim 3 wherein the epoxy resin comprises a cycloaliphatic epoxy resin.
5. (original) The binder system of claim 4 wherein the oxidizing agent is cumene hydroperoxide.
6. (original) The foundry binder system of claim 5 wherein the amount of epoxy resin is from 50 to 70 parts by weight, the amount of ester of a fatty acid is from 15 to 30 parts by weight, and the amount of amount of a oxidizing agent is from 12 to 30 parts by weight, where the weights are based upon 100 parts of the binder system and the components of said binder system are packaged as mixture.
7. (original) A foundry mix comprising:
- (a) a major amount of foundry aggregate;
 - (b) an effective bonding amount of the foundry binder system of claim 1, 2, 3, 4, 5, or 6.
8. (original) A cold-box process for preparing a foundry shape comprising:
- (a) introducing the foundry mix of claim 7 into a pattern; and
 - (b) curing with gaseous sulfur dioxide.
9. (original) A foundry shape prepared in accordance with claim 8.
10. (currently amended) A process of casting a metal article comprising:
- (a) fabricating an foundry shape in accordance with claim 8;
 - (b) pouring said metal while in the liquid state into said coated foundry shape;

- (c) allowing said metal to cool and solidify; and
- (d) then separating the molded article.

11. (original) A casting prepared in accordance with claim 10.